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Chal - 0104 Cy 4 of 5 2 May 1958

MENORANDUM FOR OPS RECORD

SUBJECT: Personal Equipment. Exhalation Valve Malfunctions.

Due to the deteriorating affect of some on latex, it was necessary in Narch 58 to replace all latex exhalation valve disphragms with a silicone material disphragm.

After many weeks of acceptance testing by VADC, the modified valve called MEV 28A-137 was accepted for field use and on 25 April released to the using agencies.

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On 2 May, \_\_\_\_\_\_ message 1676 (IN 38792) indicated that of 8 modified walves received 5 ruptured at 120 MM Hg. of pressure and that three were rejected due to the improper length of the counterpressure tube.

Our specifications to the manufacturer in requisitioning the modified walve covered both outlined discrepencies. The specifications were for disphrage pressure capabilities in excess of 150 MH Mg. and counterpressure tube measurement of 2½ inches. Specifications in addition called for a marked improvement in the quality control procedures heretofore observed by the manufacturer.

Action Taken — The Firevel Co., prime contractors for this equipment was familiarized with the existing problem. Their recommendation was to deal directly with the manufacturer — the Hauks Sierra Engineering Corp. of Sierra Madre, California.

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Chief Engineer of the Hawks Corp. was next contacted. 25X1A The following statements are general quotations from his phone conversation. "Every valve of the new design is being individually tested to 150 MM Hg. pressure followed by a second testing to 175 MM Hg. Only valves qualifying beyond doubt are distributed. Valves are periodically removed from the assembly line for rupture point testing. This point has been reached at 40PSI." (1PSI = 51.7 MM Hg.) It is obvious by these figures that the memufacturers claim far exceed our maximum specifications. In regards to the improper counterpressure tube length ... "We have made all necessary arrangements to assure that all MEV 28A-137 designated for your project will be 21 inches in length." oversess units A message has been sent to EAFB, 25X1A outlining information as quoted above. EAFB has been notified to return to depot all valves with improperly dimensioned counterpressure tubes as well as the valves that have malfunctioned. Depot has been notified to enticipate receipt of these and to forward them to the Hawk's Sierra Engineering Corp. Attn: 25X1A A trip is being planned to visit HAFB as well as the Sierra Engineering Corp. Findings resulting from this trip will be attached to this document. 25X1A Aviation Physiologist DFS/DCI/RJT:gns Distributions (RJT File) 3 - Dr. Flickinger 25X1A 4 - Chal 5 - Ops Chron

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